



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

20NR-04

Job Sheet 191155



Part No: 20NR-04

Job Qty: 40 pcs

Part Name: Solenoid



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 2/22/19

Job Tracking No:

Due Date: 2/28/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG 20NR-04 Rev 6 IPP Rev A 18.02.02 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Small Fab - 1	10 pcs	2/28/19		0.00	1.00	External Load - 1		AP 2019/03/07
							External Load - 2		
							External Load - 3		
							Small Fab - 1		
							Small Fab - 2		
							Small Fab - 3		
							Small Fab - 4		
							Small Fab - 5		
							Small Fab - 6		
							Small Fab - 7		
110	QC 5	10 pcs	2/28/19		0.00	0.00	QC 5 - 10		DAS MAR 11 2019 68 9-89
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 42		
							QC 5 - 43		
							QC 5 - 49		
							QC 5 - 51		
							QC 5 - 58		
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
							QC 5 - 30		
130	Packaging 3-2 - Stock - B4B	10 pcs	2/28/19		0.00	0.00	Packaging 3 - 1 - B4B		
							Packaging 3 - 2 - B4B		
							Packaging 3 - 3 - B4B		
							Packaging 3 - 4 - B4B		



Container No: S160183



Part: 20NR-04

Job No: 191155

Serial No/Batch: S160183

Revision: 6

Inspector:

Exp Date:

Instructions:

Date: 03/07/19

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

				Packaging 3 - 5 - B4B	
				Packaging 3 - 6 - B4B	
				Packaging 3 - 7 - B4B	
				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
140 QC 21 - FG				10 pcs	2/28/19
				0.00	0.00
				QC 21 - FG - 21	
				QC 21 - FG - 70	
				QC 21 - SA - 53	

Part Op 100 - (Small Fab)1-Assemble as per DWG sheet 1. 2-Center 20NR-03 in shaft of solenoid as per note 1. ***Note 32446
 Descriptions: 22-16 crimp connectors supplied loose as per note 2***
 110 - (QC5- Inspect part completeness to step on W/O)
 130 - (Identify as per dwg & Stock Location: _____)Bag and tag
 140 - (QC21- Final Inspection - Work Order Release)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
20NR-04-1	Solenoid	10 pcs (1 ea)	100-Small Fab - 1	8158693/3158692
20NR-04-3	Spacer	10 pcs (1 ea)	100-Small Fab - 1	8159265
32446	Crimp Terminal	20 Ea (2 ea)	100-Small Fab - 1	8090924
92383A695	Slotted Spring Pin	10 Ea (1 ea)	100-Small Fab - 1	8040831

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Small Fab - 1	20NR-04-1	10	18	0
	20NR-04-3	10	16	0
	32446	20	746	0
	92383A695	10	85	0

Part Specifications

Specifications could not be found.



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

20NR-04
Job Sheet 191155



Part No: 20NR-04

Job Qty: 10 pcs

Part Name: Solenoid



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 2/22/19

Job Tracking No:

Due Date: ~~2/28/19~~ April 20

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG 20NR-04 Rev 6 IPP Rev A 18.02.02 New issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Small Fab - 1	10 pcs	2/28/19		0.00	1.00	Small Fab - 1		
							Small Fab - 2		
							Small Fab - 3		
							Small Fab - 4		
							Small Fab - 5		
							Small Fab - 6		
							Small Fab - 7		
110	QC 5	10 pcs	2/28/19		0.00	0.00	QC 5 - 10		
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 42		
							QC 5 - 43		
							QC 5 - 49		
							QC 5 - 51		
							QC 5 - 58		
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
							QC 5 - 30		
130	Packaging 3-2 - Stock - B4B	10 pcs	2/28/19		0.00	0.00	Packaging 3 - 1 - B4B		
							Packaging 3 - 2 - B4B		
							Packaging 3 - 3 - B4B		
							Packaging 3 - 4 - B4B		
							Packaging 3 - 5 - B4B		
							Packaging 3 - 6 - B4B		
							Packaging 3 - 7 - B4B		

Plex 2/22/19 9:24 AM Dart.lajeunesse.marie

				Packaging 3 - 8 - B4B	
				Packaging 3 - 9 - B4B	
				Packaging 3 - 10 - B4B	
				Packaging 3 - 11 - B4B	
				Packaging 3 - 12 - B4B	
				Packaging 3 - 13 - B4B	
				Packaging 3 - 14 - B4B	
				Packaging 3 - 15 - B4B	
				Packaging 3 - 16 - B4B	
				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
140	QC 21 - FG	10 pcs	2/28/19	0.00 0.00	QC 21 - FG - 21
					QC 21 - FG - 70
					QC 21 - SA - 53

Part Op **100** - (Small Fab)1-Assemble as per DWG sheet 1. 2-Center 20NR-03 in shaft of solenoid as per note 1. ***Note 32446
 Descriptions: 22-16 crimp connectors supplied loose as per note 2***
110 - (QC5- Inspect part completeness to step on W/O)
130 - (Identify as per dwg & Stock Location: _____)Bag and tag
140 - (QC21- Final Inspection - Work Order Release)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
210 20NR-04-1	Solenoid	10 pcs (1 ea)	100-Small Fab - 1	④ 5158694⑥ 5158697
210 20NR-04-3	Spacer	10 pcs (1 ea)	100-Small Fab - 1	④ 5194706⑥ 5159267
748 32446	Crimp Terminal	20 Ea (2 ea)	100-Small Fab - 1	5090924
195 92383A695	Slotted Spring Pin	10 Ea (1 ea)	100-Small Fab - 1	5040831

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Small Fab - 1	20NR-04-1	10	0	0
	20NR-04-3	10	6	0
	32446	20	804	0
	92383A695	10	85	0

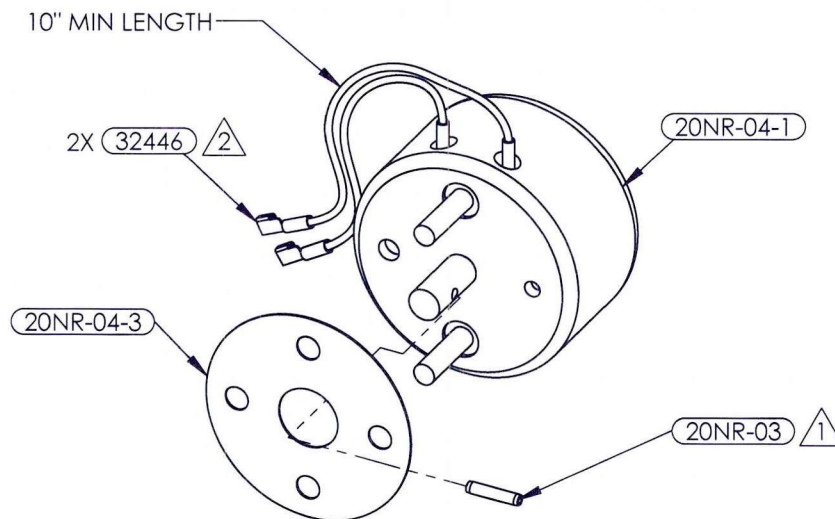
Part Specifications

Specifications could not be found.

Plex 2/22/19 9:24 AM Dart.lajeunesse.marie

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5		AS DRAWN BY CANAM.	7/18/2013	CFS	
6	14-0206	CH'D TITLEBLOCK WAS RED BARN IS DART. 20NR-04-1 ADDED ENGRAVE BATCH # NOTE. ADDED 20NR-04-3 SPACER, 2X 32446 CONNECTORS. ADDED MIN LENGTH NOTE.	11/3/2014	DPD	JAG



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 191155 MJS
19-02-22

NOTE:

- ① CENTER 20NR-03 IN SHAFT OF SOLENOID.
② CONNECTORS SUPPLIED LOOSE.

USED ON
20NR
8NR

DART AEROSPACE	
TITLE SOLENOID ASSEMBLY	
DWG NO. 20NR-04	REV 6
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	DRAWN BY: CANAM APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC USED ON MODEL
SCALE 1:2	DATE 12/1/1998 SHEET 1 OF 3

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	P.G.
		B/O	20NR-03	1	SOLENOID PIN	S.S.	Ø1/8 X 5/8 MCMaster-CARR #92383A695	1
		B/O	20NR-04-1	1	SOLENOID		H-1127-020 (MODIFIED)	2
			20NR-04-3	1	SPACER	PETG	Ø2-5/8 X .020	3
		B/O	32446	2	22-16 AWG KNIFE CONNECTOR		ALLIED ELECTRONICS 32446	1

Entered: _____ Date: _____



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. _____

Route update only ☐

Job: _____ Part No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐	DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Eng. (Non-AW) ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Engineering ☐ Water Jet ☐ Supplier ☐ Quality ☐					
Date : _____		Sequence # : _____		QTY Affected : _____		MRB (QSI042)	
Description Work Order Deviation				Disposition			
				Completed By			
				Lead hand / Supervisor			
				QC / QA Coordinator			
Root Cause Operator ☐ Manufacturing Process ☐ Equip/Tooling ☐ Handling/Presservation ☐ Material ☐ Product Improvement ☐ Process Improvement ☐ Human Factors ☐		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Crushing ☐ Cracks ☐ Crimp/Kink/Ripple/Wave/Twist ☐ Marks/Chatter ☐ Mislabeled ☐ Contamination ☐ Misaligned/off center ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Incomplete/Unclear Instructions ☐ Drill Holes ☐ Fit/Function ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain Direction ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set/Set-up ☐ Positioned Wrong ☐ Outside Tolerance ☐ Drawing ☐ Finish ☐ Part Lost/Missing ☐ Misread					
Other/Details:							